

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Raymond G. Beausoleil, William J. Munro, Timothy P. Spiller, Kae Nemoto, and Sean D. Barrett

Assignee: Hewlett-Packard Development Company, L.P.

Title: Detecting One or More Photons From Their Interactions With Probe Photons in a Matter System

Serial No.: Not assigned yet Filing Date: October 3, 2003

Examiner: Not assigned yet Group Art Unit: Not assigned yet

Docket No.: 200313970-1

San Jose, California
October 3, 2003

COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER CFR § 1.97(b)

Dear Sir:

Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, Applicants call to the attention of the Examiner the documents listed on the attached substitute PTO Form-1449A.

Copies of the listed documents are not enclosed. The documents were cited or submitted in U.S. Patent Application No. 10/412,019, filed on April 11, 2003, which the present application relies on for an earlier effective filing date under 35 U.S.C. 120.

Citation of the above documents shall not be construed as:

1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made; or
3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

No fee is believed required for submission of this information disclosure statement.

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ER 527 504 717 US

Respectfully submitted,

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FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200313970-1

APPLICATION NO.

CONFIRMATION NO

APPLICANT

Raymond G. Beausoleil et al.

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GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
	1A	5,740,117	April 14, 1998	Bona et al.	ALL
	1B				
	1C				
	1D				
	1E				
	1F				
	1G				
	1H				
	1I				
	1J				
	1K				

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translatio attached
	1L					
	1M					
	1N					
	1O					
	1P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	1Q	Chiao, Raymond Y. and Milonni, Peter W., "Fast Light, Slow Light," Optics and Photonics News, pages 26-30 (June 2002).
	1R	D'Ariano, G.M. et al., "State Preparation By Photon Filtering," arXiv:quant-ph/9906077v1, pages 1-9 (June 21, 1999).
	1S	Juzeliunas, G. et al., "Storing and Releasing Light in a Gas of Moving Atoms," arXiv:quant-ph/0210123v1, pages 1-4 (Oct 16, 2002).

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	2L					
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	2O					
	2P					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

2Q	Leonhardt, Ulf, "A Primer to Slow Light," arXiv:gr-qc/0108085v2, pages 1-20 (January 9, 2002).
2R	Lloyd, Seth et al., "Quantum Computation Over Continuous Variables," Physical Review Letters, Vol. 82, No. 8, pages 1784-1787 (Feb. 22, 1999).
2S	Pittman, T.B. and Franson, J.D., "Cyclical Quantum Memory for Photonic Qubits," Pages 1-4 (July 8, 2002)

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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	3Q	Rostovtsev, Yuri et al., "Slow, Ultraslow, Stored, and Frozen Light," Optics and Photonics News, pages 44-48 (June 2002).
	3R	Wang, Hai et al., "Enhanced Kerr Nonlinearity via Atomic Coherence in a Three-Level Atomic System," Physical Review Letters Vol. 87, No. 7, pages 073601-1 to 073601-4 (August 13, 2001)
	3S	

EXAMINER

DATE CONSIDERED